

We Claim:

1. A blood processing system comprising  
a first container to receive blood for  
centrifugal processing into a first component and a  
second component comprising plasma,  
a second container to receive the second  
component from the first container, and  
a filter to remove cellular species from the  
second component.

2. A blood processing system according to  
claim 1

wherein the first component comprises red  
blood cells.

3. A blood processing system according to  
claim 1

further including a filter to remove  
leukocytes from the first component in a downstream  
flow direction from the first container.

4. A blood processing system according to  
claim 1

further including a filter to remove  
leukocytes from blood in an upstream flow direction  
from the first container.

5. A blood processing system according to  
claim 1

further including a transfer container to  
receive the first component from the first container.

6. A blood processing system according to  
claim 5

further including a filter located between  
the first container and the transfer container to  
remove leukocytes from the first component.

Sub  
A<sup>3</sup>

7. A blood processing system according to claim 1

wherein the filter to remove cellular species from the second component is located in an upstream flow direction from the second container.

8. A blood processing system according to claim 1

wherein the filter to remove cellular species from the second component is located between the first container and the second container.

9. A blood processing system according to claim 1

wherein the filter to remove cellular species from the second component is located in a downstream flow direction from the second container.

10. A blood processing system according to claim 1

further including a transfer container communicating with the second container in a downstream flow direction from the second container.

11. A blood processing system according to claim 10

wherein the filter to remove cellular species from the second component is located between the second container and the transfer container.

12. A blood processing system according to claim 1

further including an auxiliary container holding an additive solution.

13. A blood processing system according to claim 12

wherein the auxiliary container communicates

Sub  
a<sup>3</sup>

10/25/00 "SECRET"

with the first container.

14. A blood processing system according to claim 12

wherein the auxiliary container communicates with the second container.

15. A blood processing system according to claim 14

wherein the filter to remove cellular species from the second component is located between the second container and the auxiliary container.

16. A blood processing system according to claim 12

wherein the auxiliary container communicates with both the first and second containers.

17. A blood processing system according to claim 16

wherein the filter to remove cellular species from the second component is located between the second container and the auxiliary container.

18. A blood processing method comprising processing whole blood using a system as defined in claim 1.

TELETYPE UNIT

Sub  
A<sup>3</sup>

add  
A<sup>3</sup>